

Name: _____

at1113exam: Expand, factor, and solve quadratics (v206)

1. Expand the following expression into standard form.

$$(3x + 2)(3x - 2)$$

2. Expand the following expression into standard form.

$$(2x + 5)(7x + 6)$$

3. Expand the following expression into standard form.

$$(5x + 3)^2$$

4. Solve the equation.

$$(3x - 8)(9x + 5) = 0$$

5. Factor the expression.

$$x^2 + 9x + 20$$

6. Factor the expression.

$$81x^2 - 16$$

7. Solve the equation.

$$9x^2 + 12x + 13 = 4x^2 - 2x + 5$$

8. Solve the equation with factoring by grouping.

$$18x^2 + 12x - 15x - 10 = 0$$